

RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF

DDDDDDDD	LL	EEEEEEEEEE	
DDDDDDDD	LL	EEEEEEEEEE	
DD	LL	EE	
DD	LL	EE	
DD	LL	EE	
DD	LL	EE	
DD	LL	EEEEEEEEEE	
DD	LL	EEEEEEEEEE	
DD	LL	EE	
DD	LL	EE	
DD	LL	EE	
DD	LL	EE	
DDDDDDDD	LLLLLLLLLL	EEEEEEEEEE
DDDDDDDD	LLLLLLLLLL	EEEEEEEEEE

LL	IIIIII	SSSSSSSS	
LL	IIIIII	SSSSSSSS	
LL	II	SS	
LL	II	SS	
LL	II	SS	
LL	II	SS	
LL	II	SSSSSS	
LL	II	SSSSSS	
LL	II		SS
LL	II		SS
LL	II		SS
LL	II		SS
LLLLLLLLLL	IIIIII	SSSSSSSS	
LLLLLLLLLL	IIIIII	SSSSSSSS	


```
1 0001 0 MODULE DLE ( IDENT = 'V04-000'
2 0002 0
3 0003 0 %BLISS32[
4 P 0004 0 ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)
5 0005 0 ]
6 0006 0 ) =
7 0007 1 BEGIN
8 0008 1
9 0009 1 *****
10 0010 1 *
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
12 0012 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
13 0013 1 * ALL RIGHTS RESERVED.
14 0014 1 *
15 0015 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
16 0016 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
17 0017 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
18 0018 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
19 0019 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
20 0020 1 * TRANSFERRED.
21 0021 1 *
22 0022 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
23 0023 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
24 0024 1 * CORPORATION.
25 0025 1 *
26 0026 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
27 0027 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
28 0028 1 *
29 0029 1 *
30 0030 1 *****
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
34 0034 1
35 0035 1 ABSTRACT: Processes the .DISPLAY ELEMENTS command.
36 0036 1
37 0037 1
38 0038 1 ENVIRONMENT: Transportable
39 0039 1
40 0040 1 AUTHOR: R.W.Friday CREATION DATE: May, 1979
41 0041 1
```

DLE
V04-000

Revision History

L 1
16-Sep-1984 00:11:44
14-Sep-1984 13:05:57

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]DLE.BLI;1 Page 2
(2)

:	43	0042	1	%SBTTL 'Revision History'
:	44	0043	1	
:	45	0044	1	MODIFIED BY:
:	46	0045	1	
:	47	0046	1	002 KFA00002 Ken Alden 07-Mar-1983
:	48	0047	1	Global edit of all modules. Updated module names, idents,
:	49	0048	1	copyright dates. Changed require files to BLISS library.
:	50	0049	1	
:	51	0050	1	--

DLE
V04-000

Module Level Declarations

M 1
16-Sep-1984 00:11:44
14-Sep-1984 13:05:57

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]DLE.BLI;1 Page 3
(3)

```

53      0051 1 %SBTTL 'Module Level Declarations'
54      0052 1
55      0053 1 : TABLE OF CONTENTS:
56      0054 1 :
57      0055 1 :
58      0056 1 :
59      0057 1 : INCLUDE FILES:
60      0058 1 :
61      0059 1 :
62      0060 1 LIBRARY 'NXPORT:XPORT';      ! XPORT Library
63      0061 1 REQUIRE 'REQ:RNODEF';      ! RUNOFF variant definitions
64      0192 1
65      U 0193 1 %IF DSRPLUS %THEN
66      U 0194 1 LIBRARY 'REQ:DPLLIB';      ! DSRPLUS BLISS Library
67      0195 1 %ELSE
68      0196 1 LIBRARY 'REQ:DSRLIB';      ! DSR BLISS Library
69      0197 1 %FI
70      0198 1
71      0199 1 :
72      0200 1 : MACROS:
73      0201 1 :
74      0202 1 :
75      0203 1 :
76      0204 1 : EQUATED SYMBOLS:
77      0205 1 :
78      0206 1 :
79      0207 1 :
80      0208 1 : OWN STORAGE:
81      0209 1 :
82      0210 1 :
83      0211 1 :
84      0212 1 : EXTERNAL REFERENCES:
85      0213 1 :
86      0214 1 EXTERNAL
87      0215 1     LSTCHR : REF VECTOR,
88      0216 1     LSTCNT : REF COUNTED_LIST,
89      0217 1     LSTLCH : REF VECTOR,
90      0218 1     LSTRCH : REF VECTOR,
91      0219 1     LSTLDD : REF VECTOR,
92      0220 1     FS01 : FIXED_STRING,
93      0221 1     IRA : FIXED_STRING;
94      0222 1
95      0223 1 EXTERNAL ROUTINE
96      0224 1     GETDD,
97      0225 1     GETQC,
98      0226 1     GETQS,
99      0227 1     RSKIPS,
100     0228 1     SKPSEP;
```



```
102 0229 1 GLOBAL ROUTINE DLE (HANDLER) : NOVALUE = !
103 0230 1
104 0231 1 !++
105 0232 1 FUNCTIONAL DESCRIPTION:
106 0233 1
107 0234 1 See the ABSTRACT for a general description.
108 0235 1
109 0236 1 FORMAL PARAMETERS:
110 0237 1
111 0238 1 HANDLER is a dummy parameter passed for conformance only.
112 0239 1
113 0240 1 IMPLICIT INPUTS:
114 0241 1
115 0242 1
116 0243 1 IMPLICIT OUTPUTS: None
117 0244 1
118 0245 1 ROUTINE VALUE:
119 0246 1 COMPLETION CODES: None
120 0247 1
121 0248 1 SIDE EFFECTS: None
122 0249 1
123 0250 1 --
124 0251 1
125 0252 2 BEGIN
126 0253 2 LOCAL
127 0254 2 DISPLAY_CODE,
128 0255 2 GETDD_RESULT,
129 0256 2 GETQC_RESULT;
130 0257 2
131 0258 2 !Turn off bulleting (if any) so that this command takes precedence.
132 0259 2 LSTCHR [.LSTCNT [CCL_INDEX] - 1] = 0;
133 0260 2
134 0261 2 !Skip spaces and tabs before the first display descriptor.
135 0262 2 RSKIPS (IRA);
136 0263 2
137 0264 2 !Attempt to get a character enclosed in quotes
138 0265 2 GETQC_RESULT = GETQC ();
139 0266 2
140 0267 2 !Quit if an error occurred.
141 0268 2 IF .GETQC_RESULT EQL -2
142 0269 2 THEN
143 0270 2 RETURN;
144 0271 2
145 0272 2 !If anything quoted was specified, save it
146 0273 2 IF .GETQC_RESULT NEQ -1
147 0274 2 THEN
148 0275 2 LSTLCH [.LSTCNT [CCL_INDEX] - 1] = .GETQC_RESULT;
149 0276 2
150 0277 2 !Now attempt to get a display descriptor.
151 0278 2 !First skip a separator
152 0279 2 SKPSEP (IRA);
153 0280 2 !Now get a descriptor and save it.
154 0281 2 CASE GETDD(DISPLAY_CODE) FROM -1 TO +1 OF
155 0282 2 SET
156 0283 2
157 0284 2 [-1]:
158 0285 2 !Quit if command was in error.
```



```

: 159      0286      2      RETURN;
: 160      0287      2
: 161      0288      2      [0]:
: 162      0289      2      !Do nothing if nothing supplied
: 163      0290      2      0;
: 164      0291      2
: 165      0292      2      [+1]:
: 166      0293      2      !Save descriptor
: 167      0294      2      LSTLDD [.LSTCNT [CL_INDEX] - 1] = .DISPLAY_CODE;
: 168      0295      2
: 169      0296      2      TES;
: 170      0297      2
: 171      0298      2      !Skip parameter separator, to try and get the next quoted character.
: 172      0299      2      SKPSEP (IRA);
: 173      0300      2
: 174      0301      2      !Now try to get another character enclosed in quotes.
: 175      0302      2      GETQC_RESULT = GETQC ();
: 176      0303      2
: 177      0304      2      !Quit if an error, or nothing supplied
: 178      0305      2      IF (.GETQC_RESULT EQL -2)
: 179      0306      3      OR (.GETQC_RESULT EQL -1)
: 180      0307      2      THEN
: 181      0308      2      RETURN;
: 182      0309      2
: 183      0310      2      !User said something, so save it.
: 184      0311      2      LSTRCH [.LSTCNT [CL_INDEX] - 1] = .GETQC_RESULT;
: 185      0312      2
: 186      0313      1      END;
                                !End of DLE
```

```
.TITLE DLE
.IDENT \V04-000\
```

```
.EXTRN LSTCHR, LSTCNT, LSTLCH
.EXTRN LSTRCH, LSTLDD, FS01
.EXTRN IRA, GETDD, GETQC
.EXTRN GETQS, RSKIPS, SKPSEP
```

```
.PSECT $CODE$,NOWRT,2
```

```

                                007C 00000
56 00000000G EF 9E 00002
55 00000000G EF 9E 00009
54 00000000G EF 9E 00010
53 00000000G EF 9E 00017
5E          04 C2 0001E
50          63 D0 00021
50          04 A0 D0 00024
50 00000000GFF40 DE 00028
                    FC A0 D4 00030
                    54 DD 00033
00000000G EF 01 FB 00035
65          00 FB 0003C
52          50 D0 0003F
FFFFFFFFE 8F 52 D1 00042
                    7C 13 00049
FFFFFFFFF 8F 52 D1 0004B
```

```
.ENTRY DLE, Save R2,R3,R4,R5,R6
MOVAB SKPSEP, R6
MOVAB GETQC, R5
MOVAB IRA, R4
MOVAB LSTCNT, R3
SUBL2 #4, SP
MOVL LSTCNT, R0
MOVL 4(R0), R0
MOVAL @LSTCHR[R0], R0
CLRL -4(R0)
PUSHL R4
CALLS #1, RSKIPS
CALLS #0, GETQC
MOVL R0, GETQC_RESULT
CMPL GETQC_RESULT, #-2
BEQL 5$
CMPL GETQC_RESULT, #-1
```

```

: 0229
:
:
: 0259
:
:
: 0262
:
: 0265
:
: 0268
:
: 0273
```


			13	13	00052	BEQL	1\$		
	50		63	D0	00054	MOVL	LSTCNT, R0	:	0275
	50	04	A0	D0	00057	MOVL	4(R0), R0	:	
	50	00000000GFF	40	DE	00058	MOVAL	@LSTLCH[R0], R0	:	
	FC	A0	52	D0	00063	MOVL	GETQC_RESULT, -4(R0)	:	
			54	DD	00067	PUSHL	R4	:	0279
	66		01	FB	00069	CALLS	#1, SKPSEP	:	
			5E	DD	0006C	PUSHL	SP	:	0281
	00000000G	EF	01	FB	0006E	CALLS	#1, GETDD	:	
02	FFFFFFFF	8F	50	CF	00075	CASEL	R0, #-1, #2	:	
0007		001A	004A		0007D	.WORD	5\$-2\$,-	:	
							4\$-2\$,-	:	
							3\$-2\$:	
				04	00083	RET		:	0286
	50		63	D0	00084	MOVL	LSTCNT, R0	:	0294
	50	04	A0	D0	00087	MOVL	4(R0), R0	:	
	50	00000000GFF	40	DE	00088	MOVAL	@LSTLDD[R0], R0	:	
	FC	A0	6E	D0	00093	MOVL	DISPLAY_CODE, -4(R0)	:	
			54	DD	00097	PUSHL	R4	:	0299
	66		01	FB	00099	CALLS	#1, SKPSEP	:	
	65		00	FB	0009C	CALLS	#0, GETQC	:	0302
	52		50	D0	0009F	MOVL	R0, GETQC_RESULT	:	
	FFFFFFFFE	8F	52	D1	000A2	CMPL	GETQC_RESULT, #-2	:	0305
			1C	13	000A9	BEQL	5\$:	
	FFFFFFFFF	8F	52	D1	000AB	CMPL	GETQC_RESULT, #-1	:	0306
			13	13	000B2	BEQL	5\$:	
	50		63	D0	000B4	MOVL	LSTCNT, R0	:	0311
	50	04	A0	D0	000B7	MOVL	4(R0), R0	:	
	50	00000000GFF	40	DE	000BB	MOVAL	@LSTRCH[R0], R0	:	
	FC	A0	52	D0	000C3	MOVL	GETQC_RESULT, -4(R0)	:	
			04	000C7	5\$:	RET		:	0313

; Routine Size: 200 bytes, Routine Base: \$CODE\$ + 0000

; 187 0314 1 END !End of module
; 188 0315 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	200	NOVEC,NOWRT, RD, EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

File	----- Symbols -----		Pages Mapped	Processing Time
	Total	Loaded Percent		

DLE
V04-000

Module Level Declarations

D 2
16-Sep-1984 00:11:44
14-Sep-1984 13:05:57

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]DLE.BLI;1 Page 7
(4)

:	_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
:	_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	3	0	86	00:00.3

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:DLE/OBJ=OBJ\$:DLE MSRC\$:DLE/UPDATE=(ENHS\$:DLE)

: Size: 200 code + 0 data bytes
: Run Time: 00:04.0
: Elapsed Time: 00:15.6
: Lines/CPU Min: 4701
: Lexemes/CPU-Min: 10119
: Memory Used: 49 pages
: Compilation Complete

0339

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY